

CHAPTER-1

ELECTRICAL ENGINEERING FUNDAMENTALS

Learning Outcomes

- 1.1 Define Ohm's Law And State The Laws Of Resistance.
- 1.2 State Work, Power And Energy.
- 1.3 State And Explain Kirchhoff's Laws.
- 1.4 Define (A) Flux (B) Inductance (C) Capacitance.
- 1.5 State (A) Faradays Laws Of Electromagnetic Induction (B) Lenz's Law (C) Fleming's Right-Hand Rule (D) Fleming's Left-Hand Rule
- 1.6 State And Explain Dynamically Induced EMF And Statically Induced EMF.
- 1.7 Define The Terms Related To Alternating Current (A) Alternating Current (B) Instantaneous Value (C) Maximum Value (D) Time Period (E) Power (F) Power Factor
- 1.8 State Power And Power Factor In (A) Pure Resistor (B) Pure Inductor (C) Pure Capacitor
- 1.9 Explain Single Phase A.C Series Circuits Consisting Of (A) R-L (B) R-C (C) R-L-C.
- 1.10 Explain Three Phase System With Voltage, Current And Power Equations
- 1.11 Advantages Of Three Phase System Over Single-Phase System.
- 1.12 Disadvantages Of Three Phase System Over Single-Phase System.

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Vincent Del Toro



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Fundamentals of Electrical Engineering Leonard S. Bobrow,1996 Divided into four parts circuits electronics digital systems and electromagnetics this text provides an understanding of the fundamental principles on which modern electrical engineering is based It is suitable for a variety of electrical engineering courses and can also be used as a text for an introduction to electrical engineering

Electrical Engineering Fundamentals Vincent Del Toro,1972 *Electrical Engineering Fundamentals* Toro Vincent Del,1986 Basic Electrical Engineering Mehta V.K. & Mehta Rohit,2008 For close to 30 years Basic Electrical Engineering has been the go to text for students of Electrical Engineering Emphasis on concepts and clear mathematical derivations simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject Divided into 17 chapters the book covers all the major topics such as DC Circuits Units of Work Power and Energy Magnetic Circuits fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand

Basic Electrical Engineering SINGH, S. N.,2010-10-30 This book presents comprehensive coverage of all the basic concepts in electrical engineering It is designed for undergraduate students of almost all branches of engineering for an introductory course in essentials of electrical engineering This book explains in detail the properties of different electric circuit elements such as resistors inductors and capacitors The fundamental concepts of dc circuit laws such as Kirchhoff s current and voltage laws and various network theorems such as Thevenin s theorem Norton s theorem superposition theorem maximum power transfer theorem reciprocity theorem and Millman s theorem are thoroughly discussed The book also presents the analysis of ac circuits and discusses transient analysis due to switch operations in ac and dc circuits as well as analysis of three phase circuits It describes series and parallel RLC circuits magnetic circuits and the working principle of different kinds of transformers In addition the book explains the principle of energy conversion the operating characteristics of dc machines three phase induction machines and synchronous machines as well as single phase motors Finally the book includes a discussion on technologies of electric power generation along with the different types of energy sources

Key Features Includes numerous solved examples and illustrations for sound conceptual understanding Provides well graded chapter end problems to develop the problem solving capability of the students Supplemented with three appendices addressing matrix algebra trigonometric identities and Laplace transforms of commonly used functions to help students understand the mathematical concepts required for the study of electrical engineering

Basic Electrical Engineering Sahdev SK,2015 Attuned to the needs of undergraduate students of engineering in their first year Basic Electrical Engineering enables them to build a strong foundation in the subject A large number of real world examples illustrate the applications of complex theories The book comprehensively covers all the areas taught in a one semester course and serves as an ideal study material on the subject

Electrical Engineering Fundamentals 2Nd Ed. Vincent Del Toro,1986 **Fundamentals of**

Electrical Engineering Dr. Yaduvir Singh, Mandhir Verma, 2010-02 Fundamentals of Electrical Engineering Yaduvir Singh, 2016 Providing several examples and numerical problems this book is a compendium of the basics and fundamentals of electrical engineering *FUNDAMENTALS OF ELECTRICAL ENGINEERING, THIRD EDITION* PRASAD, RAJENDRA, 2014-01-16 This comprehensive book in its third edition continues to provide an in depth analysis on the fundamental principles of electrical engineering The exposition of these principles is fully reinforced by many practical problems that illustrate the concepts discussed Beginning with a precise and quantitative detailing of the basics of electrical engineering the text moves on to explain the fundamentals of circuit theory electrostatic and electromagnetism and further details on the concept of electromechanical energy conversion The book provides an elaborate and systematic analysis of the working principle applications and construction of each electrical machine In addition to circuit responses under steady state conditions the book contains the chapters on dynamic responses of networks and analysis of a three phase circuit In this third edition two chapters on Electrical Power System and Domestic Lighting have been added to fulfil the syllabus requirement of various universities The chapters discuss different methods of generating electrical power economic consideration and tariff of power system illumination light sources used in lighting systems conductor size and insulation lighting accessories used in wiring systems fuses and MCBs meter board main switch and distribution board earthing methods types of wiring wiring system for domestic use and cost estimation of wiring system Designed as a text for the undergraduate students of almost all branches of engineering the book will also be useful to the practising engineers as reference Key Features Discusses statements with numerical examples Includes answers to the numerical problems at the end of the book Enhances learning of the basic working principles of electrical machines by using a number of supporting examples review questions and illustrative examples **Basic Of Electrical & Electronic Engineering (Set Of 3 Vols.)** Pankaj Swarnkar, 2003-01-01 The Book Covers The Complete Syllabus Of Subject As Suggested By Most Of The Universities In India It Is Mainly Written For Undergraduate Technical Students But You Will Find It Helpful To Students Of Post Graduation And Those Who Are Preparing For Competitive Exams Practising Engineers And Industry Persons Would Like To Refer It Since It Has Many Practical Examples Related To Industries Space And Robotics Continuous Linear An Time Invariant Systems Are Discussed In Detail While The Broad Introduction Of Nonlinear And Discrete Data Systems Is Also Presented The Details Mathematical Description As Needed By The Subject And The Objective Type Questions For Competitive Exams Are Given In Appendix **Basic Electrical Engineering** C. L. Wadhwa, 2007-12 About the Book Basic Electrical Engineering has been written as a core course for all engineering students viz electronics and communication engineering computer engineering civil engineering mechanical engineering etc Since this course will normally be offered at the first year level of engineering the author has made modest effort to give in a concise form various features of Basic Electrical Engineering using simple language and through solved examples avoiding the rigorous of mathematics The salient features

of this edition D C Circuits along with Ohms law and Kirchoff s laws explained Faradays laws of electromagnetic induction Lenz s law Hysteresis losses and eddy current losses have been discussed Steady state analysis of a c circuits explained Network theorems explained using typical examples Analysis of 3 phase circuits and measurement of power in these circuits explained Measuring instruments like ammeter voltmeter wattmeter and energy meter described Various electrical machines viz transformers d c machines single phase and three phase induction motors synchronous machines servomotors have been described A brief view of power system including conventional and non conventional sources of electric energy is given Domestic wiring has been discussed Numerous solved examples and practice problems for thorough grasp of the subject presented A large number of multiple choice questions with answer given Contents D C Circuits Electromagnetic Induction A C Circuits Network Theory Three Phase Supply Basic Instruments Transformer D C Machines Three Phase Synchronous Machines Three Phase Induction Motors Single Phase Induction Motors Power System Domestic Wiring *Fundamentals of Electrical Engineering I* Don Johnson, The textbook focuses on the creation manipulation transmission and reception of information by electronic means Elementary signal theory time and frequency domain analysis Sampling Theorem Digital information theory digital transmission of analog signals error correcting codes BC Campus website *Basic Electrical and Electronics Engineering* S. K. Bhattacharya,2011 This book provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level Efforts have been taken to keep the complexity level of the subject to bare minimum so that the students of non electrical electronics can easily understand the basics It offers an unparalleled exposure to the entire gamut of topics such as Electricity Fundamentals Network Theory Electro magnetism Electrical Machines Transformers Measuring Instruments Power Systems Semiconductor Devices Digital Electronics and Integrated Circuits **Basic Electrical Engineering** Uday A Bakshi,Varsha U Bakshi,2013 *Basic Electrical Engineering* Mithal G K,1998 *Basic Electrical Engineering* KULSHRESHTHA.,2009 *Instuctor's Manual for Fundamentals of Electrical Engineering* Leonard S. Bobrow,1985 **Fundamentals Of Electrical Engineering And Technology** Stanley, **Fundamentals of Electrical Engineering** Charles A. Gross,Thaddeus A. Roppel,2012-02-15 Real world engineering problems are rarely if ever neatly divided into mechanical electrical chemical civil and other categories Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation which require at least a basic knowledge of electrical and other engineering specialties as well as associated economics and environmental political and social issues Co authored by Charles Gross one of the most well known and respected professors in the field of electric machines and power engineering and his world renowned colleague Thad Roppel Fundamentals of Electrical Engineering provides an overview of the profession for engineering professionals and students whose specialization lies in areas other than electrical For instance civil engineers must contend with commercial electrical service and lighting design issues Mechanical engineers have to deal with motors in HVAC applications and chemical engineers are forced to handle problems

involving process control Simple and easy to use yet more than sufficient in rigor and coverage of fundamental concepts this resource teaches EE fundamentals but omits the typical analytical methods that hold little relevance for the audience The authors provide many examples to illustrate concepts as well as homework problems to help readers understand and apply presented material In many cases courses for non electrical engineers or non EEs have presented watered down classical EE material resulting in unpopular courses that students hate and senior faculty members understandingly avoid teaching To remedy this situation and create more well rounded practitioners the authors focus on the true EE needs of non EEs as determined through their own teaching experience as well as significant input from non EE faculty The book provides several important contemporary interdisciplinary examples to support this approach The result is a full color modern narrative that bridges the various EE and non EE curricula and serves as a truly relevant course that students and faculty can both enjoy

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